

## **Adaptive properties of the dandelion (*Taraxacum officinale* Wigg. s.l.) under conditions of air pollution by motor vehicle exhausts**

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### **Abstract**

Microcalorimetric, gasometric, and nuclear magnetic resonance (NMR) methods have been used to evaluate heat production, gas exchange, and root membrane permeability in dandelion of different morphological forms from populations exposed to different levels of air pollution. The results show that these forms differ in the level of energy metabolism and that the form with a higher metabolic level (*T. off. f. dahlstedtii*) is more tolerant of air pollution with motor vehicle exhausts. © 2014 Pleiades Publishing, Ltd.

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### **Keywords**

air pollution, gas exchange, heat production, NMR relaxation, *Taraxacum officinale* Wigg. s.l.